



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
J. D. Westwood)
Serial No.: 09/753,433)
Filed: 01/02/2001)
For: METHOD OF MAKING NiFeCo-O-N OR)
NiFeCo-N FILMS FOR SHIELDS AND/)
OR POLES OF A MAGNETIC HEAD)

Group Art Unit: 2652

Examiner: Tianjie Chen

Atty Docket No.: SJO990037US1

6/A
1-10-03
OK

Assistant Commissioner for Patents
Washington, D.C. 20231

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JAN 08 2003

Technology Center 2600

Sir:

AMENDMENT AND RESPONSE TO RESTRICTION REQUIREMENT

In response to the Office Action mailed 12/12/2002 please amend the application as follows.

In the claims (see Attachment for present amendments)

- 1 1. A magnetic head assembly, which has an air bearing surface (ABS), comprising:
2 a spin valve sensor, nonmagnetic first and second read gap layers, a ferromagnetic first
3 shield layer and a ferromagnetic first pole piece layer;
4 the spin valve sensor being located between the first and second read gap layers and the
5 first and second read gap layers being located between the first shield layer and the first pole piece
6 layer;
7 the spin valve sensor having a pinned layer which has a magnetic moment that is pinned
8 by a pinning layer in a direction perpendicular to the ABS;
9 a ferromagnetic second pole piece layer and a nonmagnetic write gap layer wherein the
10 second pole piece layer is separated from the first pole piece layer by the write gap layer at the
11 ABS and is connected to the first pole piece layer at a back gap;
12 each of the first shield layer and the first and second pole piece layers having a magnetic
13 easy axis that is directed parallel to the ABS;